

## **What is claimed is:**

**[Claim 1]** 1. A method of creating a temporary site dependent push-to-talk/media (PTT/M) group for allowing PTT/M communications among a visiting PTT/M equipped mobile device and site based PTT/M equipped devices while the visiting PTT/M equipped mobile device is on-site wherein the PTT/M equipped devices operate on one or more inter-communicable PTT/M networks, the method comprising:

detecting when a visiting PTT/M equipped mobile device comes on-site; registering the visiting PTT/M equipped mobile device with the site based PTT/M equipped devices and the site based PTT/M equipped devices with the visiting PTT/M equipped mobile device such that normal group PTT/M communications can take place;

detecting when a visiting PTT/M equipped mobile device goes off-site; de-registering the visiting PTT/M equipped mobile device with the site based PTT/M equipped devices and the site based PTT/M equipped devices with the visiting PTT/M equipped mobile device when the PTT/M equipped mobile device goes off-site.

**[Claim 2]** 2. The method of claim 1 wherein detecting when a visiting PTT/M equipped mobile device comes on-site comprises sensing the visiting PTT/M equipped mobile device using Bluetooth™ technology.

**[Claim 3]** 3. The method of claim 1 wherein detecting when a visiting PTT/M equipped mobile device comes on-site comprises sensing the visiting PTT/M equipped mobile device using 802.11 WiFi technology.

**[Claim 4]** 4. The method of claim 1 wherein detecting when a visiting PTT/M equipped mobile device comes on-site comprises sensing the visiting PTT/M equipped mobile device using IrDa infra-red technology.

**[Claim 5]** 5. The method of claim 1 wherein detecting when a visiting PTT/M equipped mobile device comes on-site comprises sensing the visiting PTT/M equipped mobile device using location based services.

**[Claim 6]** 6. The method of claim 5 wherein the location based services include the global positioning system (GPS).

**[Claim 7]** 7. The method of claim 1 wherein registering the visiting PTT/M equipped mobile device with the site based PTT/M equipped devices and the site based PTT/M equipped devices with the visiting PTT/M equipped mobile device such that normal group PTT/M communications can take place comprises:

- on the site based PTT/M equipped devices PTT/M network server, adding the visiting PTT/M equipped mobile device ID; and
- on the visiting PTT/M equipped mobile device PTT/M network server, adding site based PTT/M equipped device IDs.

**[Claim 8]** 8. The method of claim 1 wherein de-registering the visiting PTT/M equipped mobile device from the site based PTT/M equipped devices when the visiting PTT/M equipped mobile device goes off-site comprises:

- on the site based PTT/M equipped devices PTT/M network server, removing the visiting PTT/M equipped mobile device ID; and
- on the visiting PTT/M equipped mobile device PTT/M network server, removing the site based PTT/M equipped device IDs.

**[Claim 9]** 9. The method of claim 8 wherein the visiting PTT/M equipped mobile device will be de-registered after a specified period of time if it cannot be detected when the visiting PTT/M equipped mobile device has gone off-site.

**[Claim 10]** 10. A system for creating a temporary site dependent push-to-talk/media (PTT/M) group for allowing PTT/M communications among a visiting PTT/M equipped mobile device and site based PTT/M equipped devices while the visiting PTT/M equipped mobile device is on-site wherein the PTT/M equipped devices operate on one or more inter-communicable PTT/M networks, the method comprising:

first discovery means for detecting when a visiting PTT/M equipped mobile device comes on-site;

registration means for registering the visiting PTT/M equipped mobile device with the site based PTT/M equipped devices and the site based PTT/M equipped devices with the visiting PTT/M equipped mobile device such that normal group PTT/M communications can take place;

second discovery means for detecting when a visiting PTT/M equipped mobile device goes off-site;

de-registration means for de-registering the visiting PTT/M equipped mobile device with the site based PTT/M equipped devices and the site based PTT/M equipped devices with the visiting PTT/M equipped mobile device when the PTT/M equipped mobile device goes off-site.

**[Claim 11]** 11. The system of claim 10 wherein the first discovery means for detecting when a visiting PTT/M equipped mobile device comes on-site comprises sensing the visiting PTT/M equipped mobile device using Bluetooth™ technology.

**[Claim 12]** 12. The system of claim 10 wherein the first discovery means for detecting when a visiting PTT/M equipped mobile device comes on-site comprises sensing the visiting PTT/M equipped mobile device using 802.11 WiFi technology.

**[Claim 13]** 13. The system of claim 10 wherein the first discovery means for detecting when a visiting PTT/M equipped mobile device comes on-site

comprises sensing the visiting PTT/M equipped mobile device using IrDa infra-red technology.

**[Claim 14]** 14. The system of claim 10 wherein the first discovery means for detecting when a visiting PTT/M equipped mobile device comes on-site comprises sensing the visiting PTT/M equipped mobile device using location based services.

**[Claim 15]** 15. The system of claim 14 wherein the location based services include the global positioning system (GPS).

**[Claim 16]** 16. The system of claim 10 wherein the registration means for registering the visiting PTT/M equipped mobile device with the site based PTT/M equipped devices and the site based PTT/M equipped devices with the visiting PTT/M equipped mobile device such that normal group PTT/M communications can take place comprises:

- on the site based PTT/M equipped devices PTT/M network server, adding the visiting PTT/M equipped mobile device ID; and

- on the visiting PTT/M equipped mobile device PTT/M network server, adding site based PTT/M equipped device IDs.

**[Claim 17]** 17. The system of claim 10 wherein the de-registration means for de-registering the visiting PTT/M equipped mobile device from the site based PTT/M equipped devices when the visiting PTT/M equipped mobile device goes off-site comprises:

- on the site based PTT/M equipped devices PTT/M network server, removing the visiting PTT/M equipped mobile device ID; and

- on the visiting PTT/M equipped mobile device PTT/M network server, removing the site based PTT/M equipped device IDs.

**[Claim 18]** 18. The system of claim 15 wherein the visiting PTT/M equipped mobile device is automatically de-registered after a specified period of time if it cannot be detected when the visiting PTT/M equipped mobile device has gone off-site.